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UTILITY PATENT APPLICATION TRANSMITTAL

(Only for new nonprovisional applications under 37 C.F.R. 1.53(b))

| | | |
|------------------------|--------------------------------------------------------------|----------------------------|
| Attorney Docket No. | | 5121 |
| First Inventor | | SAMUEL C. WADSWORTH ET AL. |
| Title | METHODS OF TREATING DIABETES AND OTHER BLOOD SUGAR DISORDERS | |
| Express Mail Label No. | | EL408063118US |

APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents.

- Fee Transmittal Form (e.g., PTO/SB/17)
(Submit an original and a duplicate for fee processing)
- Applicant claims small entity status.
See 37 CFR 1.27.
- Specification [Total Pages 54]
(preferred arrangement set forth below)
 - Descriptive title of the Invention
 - Cross Reference to Related Applications
 - Statement Regarding Fed sponsored R & D
 - Reference to sequence listing, a table, or a computer program listing appendix
 - Background of the Invention
 - Brief Summary of the Invention
 - Brief Description of the Drawings (if filed)
 - Detailed Description
 - Claim(s)
 - Abstract of the Disclosure
- Drawing(s) (35 U.S.C. 113) [Total Sheets 37]
- Oath or Declaration [Total Sheets]
 a. Newly executed (original or copy)
 b. Copy from a prior application (37 CFR 1.63 (d))
 (for a continuation/divisional with Box 18 completed)
 - i. **DELETION OF INVENTOR(S)**
Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).
- Application Data Sheet. See 37 CFR 1.76

ADDRESS TO:
 Commissioner for Patents
 Mail Stop Patent Application
 P.O. Box 1450
 Alexandria VA 22313-1450

7. CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)
8. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary)
 - a. Computer Readable Form (CRF)
 - b. Specification Sequence Listing on:
 - i. CD-ROM or CD-R (2 copies); or
 - ii. paper
 - c. Statements verifying identity of above copies

ACCOMPANYING APPLICATIONS PARTS

9. Assignment Papers (cover sheet & document(s))
10. 37 C.F.R. 3.73(b) Statement Power of (when there is an assignee) Attorney
11. English Translation Document (if applicable)
12. Information Disclosure Statement (IDS)/PTO-1449 Copies of IDS Citations
13. Preliminary Amendment
14. Return Receipt Postcard (MPEP 503) (Should be specifically itemized)
15. Certified Copy of Priority Document(s) (if foreign priority is claimed)
16. Nonpublication Request under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent.
17. Other: _____

18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76:

Continuation Divisional Continuation-in-part (CIP) of prior application No: _____ /
 Prior application information: Examiner _____ Art Unit: _____

For CONTINUATION or DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

19. CORRESPONDENCE ADDRESS

| | | |
|-----------------------------------------------------------------------|-------|--------------------------------------------------------------------------------------------------------------|
| <input checked="" type="checkbox"/> Customer Number or Bar Code Label | 24536 | <input type="checkbox"/> Correspondence address below (Insert Customer No. or Attach bar code label here) |
|-----------------------------------------------------------------------|-------|--------------------------------------------------------------------------------------------------------------|

| | | | | | |
|---------|--------------------------------------------------|-----------|----------------|----------|----------------|
| Name | Genzyme Corporation | | | | |
| Address | 15 Pleasant Street Connector Legal Department | | | | |
| City | Framingham | State | MA | Zip Code | 01701-9322 |
| Country | USA | Telephone | (508) 270-2499 | Fax | (508) 872-5415 |

| | | | |
|-------------------|--------------------------|-----------------------------------|--------|
| Name (Print/Type) | Jennifer L. Dupre | Registration No. (Attorney/Agent) | 41,722 |
| Signature | <i>Jennifer L. Dupre</i> | | Date |

This collection of information is required by 37 CFR 1.53(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

22581 U.S. PTO
10/7/15916

111703

FEE TRANSMITTAL for FY 2004

Effective 10/01/2003. Patent fees are subject to annual revision.

 Applicant claims small entity status. See 37 CFR 1.27**TOTAL AMOUNT OF PAYMENT** (\$ 856

| Complete if Known | |
|----------------------|----------------------------|
| Application Number | Unassigned |
| Filing Date | November 17, 2003 |
| First Named Inventor | Samuel C. Wadsworth et al. |
| Examiner Name | Unassigned |
| Art Unit | Unassigned |
| Attorney Docket No. | 5121 |

METHOD OF PAYMENT (check all that apply)
 Check Credit card Money Other None
Order
 Deposit Account:

Deposit Account Number 07-1074

Deposit Account Name Genzyme Corporation

The Director is authorized to: (check all that apply)
 Charge fee(s) indicated below Credit any overpayments
 Charge any additional fee(s) during the pendency of this application
 Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.
FEE CALCULATION**1. BASIC FILING FEE**

| Large Entity | Small Entity | Fee Description | Fee Paid |
|---------------------|--------------|-----------------|------------------------|
| Fee Code | Fee Code | Fee (\$) | Fee (\$) |
| 1001 | 2001 | 385 | Utility filing fee 770 |
| 1002 | 2002 | 170 | Design filing fee |
| 1003 | 2003 | 265 | Plant filing fee |
| 1004 | 2004 | 385 | Reissue filing fee |
| 1005 | 2005 | 80 | Provisional filing fee |
| SUBTOTAL (1) | | | (\$ 770) |

2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE

| | Extra Claims | Fee from below | Fee Paid |
|--------------------|--------------|----------------|---------------|
| Total Claims | 16 | -20 ** | = 0 X 0 = 0 |
| Independent Claims | 4 | -3 ** | = 1 X 86 = 86 |
| Multiple Dependent | | | X 0 = 0 |

| Large Entity | Small Entity | Fee Description |
|---------------------|--------------|-----------------|
| Fee Code | Fee Code | Fee (\$) |
| 1202 | 2202 | 9 |
| 1201 | 2201 | 43 |
| 1203 | 2203 | 145 |
| 1204 | 2204 | 43 |
| 1205 | 2205 | 9 |
| SUBTOTAL (2) | | (\$ 86) |

** or number previously paid, if greater; For Reissues, see above

FEE CALCULATION (continued)**3. ADDITIONAL FEES**

| Large Entity | Small Entity | Fee Description | Fee Paid |
|--------------|--------------|-----------------|----------------------------------------------------------------------------|
| Fee Code | Fee Code | Fee (\$) | Fee (\$) |
| 1051 | 130 | 2051 65 | Surcharge - late filing fee or oath |
| 1052 | 50 | 2052 25 | Surcharge - late provisional filing fee or cover sheet |
| 1053 | 130 | 1053 130 | Non-English specification |
| 1812 | 2,520 | 1812 2,520 | For filing a request for reexamination |
| 1804 | 920* | 1804 920* | Requesting publication of SIR prior to Examiner action |
| 1805 | 1,840* | 1805 1,840* | Requesting publication of SIR after Examiner action |
| 1251 | 110 | 2251 55 | Extension for reply within first month |
| 1252 | 420 | 2252 210 | Extension for reply within second month |
| 1253 | 950 | 2253 475 | Extension for reply within third month |
| 1254 | 1,480 | 2254 740 | Extension for reply within fourth month |
| 1255 | 2,010 | 2255 1,005 | Extension for reply within fifth month |
| 1401 | 330 | 2401 165 | Notice of Appeal |
| 1402 | 330 | 2402 165 | Filing a brief in support of an appeal |
| 1403 | 290 | 2403 145 | Request for oral hearing |
| 1451 | 1,510 | 1451 1,510 | Petition to institute a public use proceeding |
| 1452 | 110 | 2452 55 | Petition to revive – unavoidable |
| 1453 | 1,330 | 2453 665 | Petition to revive – unintentional |
| 1501 | 1,330 | 2501 665 | Utility issue fee (or reissue) |
| 1502 | 480 | 2502 240 | Design issue fee |
| 1503 | 640 | 2503 320 | Plant issue fee |
| 1460 | 130 | 1460 130 | Petitions to the Commissioner |
| 1807 | 50 | 1807 50 | Processing fee under 37 CFR 1.17 (q) |
| 1806 | 180 | 1806 180 | Submission of Information Disclosure Stmt |
| 8021 | 40 | 8021 40 | Recording each patent assignment per property (times number of properties) |
| 1809 | 770 | 2809 385 | Filing a submission after final rejection (37 CFR § 1.129(a)) |
| 1810 | 770 | 2810 385 | For each additional invention to be examined (37 CFR § 1.129(b)) |
| 1801 | 770 | 2801 385 | Request for Continued Examination (RCE) |
| 1802 | 900 | 1802 900 | Request for expedited examination of a design application |

Other fee (specify) _____

*Reduced by Basic Filing Fee Paid

SUBTOTAL (3)

(\$ 0)

SUBMITTED BY

Complete (if applicable)

| | | | | | |
|-------------------|-------------------------------------------------------------------------------------|-----------------------------------|--------|-------------------|----------------|
| Name (Print/Type) | Jennifer L. Dupre | Registration No. (Attorney/Agent) | 41,722 | Telephone | (508) 270-2559 |
| Signature |  | | Date | November 17, 2003 | |

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

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